

## ABSTRACT

A modular cellular wireless communication base station includes a plurality of active radiator modules located at a desired antenna location. Each module includes at least one antenna, a transmitter, and a receiver. A beam forming network controls relative amplitudes and phases of each of the modules. An RF front end transmits over a low power link with the active radiator modules via the beam forming network and receives over the low power link via a low noise amplifier. A delay diversity module provides a transmission CDMA delay diversity.